

IN THE CLAIMS

Claims 1 - 4 (cancelled)

5. (currently amended) ~~An expansive element in a thermoelastic design that is A~~
thermoelastic actuator for a micro-electromechanical device, the actuator being made from
any functionally suitable material or combinations of materials selected from a group
including:

silicides and carbides of titanium.

6. (currently amended) ~~An expansive element actuator according to Claim 5 further~~
including in which the material or combination of materials is selected to have one or more
of the following properties:

- (a) a resistivity between $0.1\mu\Omega\text{m}$ and $10.0\mu\Omega\text{m}$;
- (b) chemically inert in air;
- (c) chemically inert in ~~the chosen~~ ink; and
- (d) depositable by CVD, sputtering or other thin film deposition technique.

A 2
7. (currently amended) ~~An expansive element in a thermoelastic design that is A~~
thermoelastic actuator for a micro-electromechanical device, the actuator being made from
any functionally suitable material or combinations of materials selected from a group
including:

borides, silicides, carbides and nitrides of tantalum, molybdenum, niobium, chromium,
tungsten, vanadium, and zirconium.

8. (currently amended) ~~An expansive element actuator according to Claim 7 further~~
including in which the material or combination of materials is selected to have one or more
of the following properties:

- (e) a resistivity between $0.1\mu\Omega\text{m}$ and $10.0\mu\Omega\text{m}$;
- (f) chemically inert in air;
- (g) chemically inert in ~~the chosen~~ ink; and
- (h) depositable by CVD, sputtering or other thin film deposition technique.

9. (currently amended) ~~An expansive element in a thermoelastic design that is A~~
thermoelastic actuator for a micro-electromechanical device, the actuator being made from

any functionally suitable alloy material or combinations of alloy materials selected from the group including:

borides, silicides, carbides and nitrides of titanium, tantalum, molybdenum, niobium, chromium, tungsten, vanadium, and zirconium.

10. (currently amended) An ~~expansive element~~ actuator according to Claim 9 ~~further including in which the alloy material or combinations of alloy material is selected to have~~ one or more of the following properties:

- A2
- (i) a resistivity between $0.1\mu\Omega\text{m}$ and $10.0\mu\Omega\text{m}$;
 - (j) chemically inert in air;
 - (k) chemically inert in the chosen ink; and
 - (l) depositable by CVD, sputtering or other thin film deposition technique.
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